

**Vydate® L (blue)**

Version 2.0

Revision Date 11.01.2005

Ref. 130000013373

This SDS adheres to the standards and regulatory requirements of the European Community and may not meet the regulatory requirements of other countries.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Product name : Vydate® L (blue)

Synonyms : B10067501

Use of the Substance/Preparation : insecticide

Company : Du Pont de Nemours (France) S.A.S.
Rue de L'Université 137
75334 Paris

Telephone : +330145506550

Telefax :

Emergency telephone number : +44-(0)2871-861.313

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation : Carbamate in aqueous methanol solution

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
Methanol	67-56-1	200-659-6	F; R11 T; R23/24/25 - R39/23/24/25	30 - 50
Oxamyl	23135-22-0		T+; R26/28 Xn; R21 N; R51 -R53	24

For the full text of the R phrases mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION

Flammable.

Toxic by inhalation and if swallowed.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice : Call a physician or Poison Control Centre immediately. This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds. Never give anything by mouth to an unconscious person. If breathing is irregular or stopped, administer artificial respiration.

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| Inhalation | : | Move to fresh air. If victim is unconscious but breathing: Give oxygen. |
| Skin contact | : | Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. |
| Eye contact | : | Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| Ingestion | : | Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. |

Notes to physician

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| Symptoms | : | constriction of pupils, blurred vision, weakness, headache, Daze, sweating, muscle twitching, Breathing difficulties |
| Risks | : | This product is a cholinesterase inhibitor carbamate. |
| Treatment | : | Administer atropine sulphate as antidote. bis zur völligen Atropisierung Morphine, 2-PAM and oxime therapy are contra-indicated. |

5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media | : | water spray, dry chemical, foam, carbon dioxide (CO ₂), |
| Extinguishing media which must not be used for safety reasons | : | high volume water jet, (contamination risk), |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus. |
| Further information | : | In the event of fire and/or explosion do not breathe fumes. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions | : | Wear personal protective equipment. Evacuate personnel to safe areas. |
| Environmental precautions | : | Do not flush into surface water or sanitary sewer system. Do not contaminate surface water. Do not allow material to contaminate ground water system. |
| Methods for cleaning up | : | Neutralise with sodium hydroxide and allow to stand for 4 hours. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal. |

7. HANDLING AND STORAGE**Handling**

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Advice on safe handling : Provide adequate ventilation. Wear personal protective equipment.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep out of the reach of children.

Advice on common storage : No materials to be especially mentioned.

Storage temperature : > 0 °C

Other data : Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering measures**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection : Respirator with combination filter for vapour/particulate. respirator with A2B2-P3 filter

Hand protection : Material: solvent-resistant gloves (butyl-rubber)
Glove thickness: 0,4 - 0,7 mm
Wearing time: 480 min
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : face-shield tightly fitting safety goggles

Skin and body protection : protective suit

Hygiene measures : Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Protective measures : All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid,

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Colour	: blue,
Odour	: slight, sulphurous,
pH	: 2,8 - 3,2 at 10 g/l (20 °C)
Solidification point	: -5 °C
Flash point	: 23 °C , Method: closed cup
Flash point	: 30 °C , Method: open cup
Density	: 0,98 g/cm ³ at 25 °C
Solubility/qualitative	: completely miscible
Partition coefficient (n-octanol/water)	: POW: 0,33 log Pow: -0,48
Viscosity, dynamic	: 1 - 5 mPa/s at 20 °C, see user defined free text

10. STABILITY AND REACTIVITY

Conditions to avoid	: Processing temperature : > 130 °C
Hazardous decomposition products	: Carbon oxides, nitrogen oxides (NO _x), Heating can release vapours which can be ignited.
Hazardous reactions	: Vapours may form explosive mixture with air. No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50/rat male: 37 mg/kg
Acute oral toxicity • Methanol	: LD50/rat : 5 628 mg/kg
Acute inhalation toxicity	: LC50/1 h/rat : 0,3009 mg/l
Acute inhalation toxicity • Methanol	: LC50/4 h/rat : 50 mg/l
Acute dermal toxicity	: LD50/rat : > 5 000 mg/kg
Acute dermal toxicity • Methanol	: LD50/rat : 15 800 mg/kg
Skin irritation	: No skin irritation

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Eye irritation	: No eye irritation
Sensitization	: Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
• Methanol	: Inhalation rat, Exposure time: 90 d, NOEL: 13,3 mg/l

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

Biodegradability	: According to the results of tests of biodegradability this product is considered as being readily biodegradable.
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Ecotoxicity effects

Toxicity to fish	: LC50/96 h/Oncorhynchus mykiss (rainbow trout): 12,4 mg/l
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Toxicity to fish	
• Methanol	: LC50/96 h/Fathead minnow: 28 100 mg/l

Aquatic toxicity	: EC50/48 h/Daphnia: 1,95 mg/l
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13. DISPOSAL CONSIDERATIONS

Product	: In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. The product should not be allowed to enter drains, water courses or the soil.
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14. TRANSPORT INFORMATION**ADR**

Class:	6.1
Packaging group:	I
Classification Code:	TF2
HI No.:	663
UN-No:	2991
Labelling No.:	6.1, 3
Proper shipping name:	Carbamate pesticide, liquid, toxic, flammable (Oxamyl, Methanol)

IATA_C

Class:	6.1
Packaging group:	I
UN-No:	2991
Labelling No.:	6.1, 3

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Proper shipping name: Carbamate pesticide, liquid, toxic, flammable (Oxamyl, Methanol)

IMDG

Class: 6.1

Packaging group: I

UN-No: 2991

Labelling No.: 6.1, 3

Proper shipping name: Carbamate pesticide, liquid, toxic, flammable (Oxamyl, Methanol)

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Symbol(s) : T Toxic
N Dangerous for the environment

Hazardous components: Methanol
Oxamyl

R-phrases(s) : R10 Flammable.
R23/25 Toxic by inhalation and if swallowed.
R39/23/24/25 Toxic: danger of very serious irreversible effects through
inhalation, in contact with skin and if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse
effects in the aquatic environment.

S-phrases(s) : S 2 Keep out of reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
S20/21 When using do not eat, drink or smoke.
S35 This material and its container must be disposed of in a safe
way.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice
immediately (show the label where possible).
S57 Use appropriate container to avoid environmental
contamination.

Exceptional labelling of special preparations : To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

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R11	Highly flammable.
R21	Harmful in contact with skin.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R26/28	Also very toxic by inhalation and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R51	Toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.